Datasheet for ABIN7561289

EHHADH Protein (AA 1-718) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	EHHADH
Protein Characteristics:	AA 1-718
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EHHADH protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Ehhadh Protein expressed in mammalien cells.
Sequence:	MAEYLRLPHS LAMIRLCNPP VNAISPTVIT EVRNGLQKAS LDHTVRAIVI CGANDNFCAG ADIHGFKSPT GLTLGSLVDE IQRYQKPVVA AIQGVALGGG LELALGCHYR IANAKARVGF PEVMLGILPG ARGTQLLPRV VGVPVALDLI TSGRHISTDE ALKLGILDVV VKSDPVEEAI KFAQTVIGKP IEPRRILNKP VPSLPNMDSV FAEAIAKVRK QYPGRLAPET CVRSVQASVK HPYEVAIKEE AKLFMYLRGS GQARALQYAF FAEKSANKWS TPSGASWKTA SAQPVSSVGV LGLGTMGRGI AISFARVGIP VVAVESDPKQ LDTAKKIITS TLEKEASKSG QASAKPNLRF SSSTKELSSV DLVIEAVFED MNLKKKVFAE LSALCKPGAF LCTNTSALDV DDIASSTDRP QLVIGTHFFS PAHIMRLLEV IPSRYSSPTT IATVMSLSKR IGKIGVVVGN CYGFVGNRML APYYNQGYFL IEEGSKPEDV DGVLEEFGFR MGPFRVSDLA GLDVGWKVRK GQGLTGPSLP PGTPTRKRGN TRYSPIADML CEAGRFGQKT GKGWYQYDKP LGRIHKPDPW LSEFLSQYRE THHIKQRSIS KEEILERCLY SLINEAFRIL EEGMAASPEH IDVIYLHGYG WPRHVGGPMY

Product Details

	YAASVGLPTV LEKLQKYYRQ NPDIPQLEPS DYLRRLVAQG SPPLKEWQSL AGPHSSKL **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	EHHADH
Alternative Name:	Ehhadh (EHHADH Products)
Background:	Peroxisomal bifunctional enzyme (PBE) (PBFE) (L-peroxisomal bifunctional enzyme) (L-PBE) (Multifunctional enzyme 1) (MFE1) (Multifunctional protein 1) (MFP-1) [Includes: Enoyl-CoA hydratase/3,2-trans-enoyl-CoA isomerase (EC 4.2.1.17) (EC 5.3.3.8), 3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.35)],FUNCTION: Peroxisomal trifunctional enzyme possessing 2-enoyl-CoA hydratase, 3-hydroxyacyl-CoA dehydrogenase, and delta 3, delta 2-enoyl-CoA isomerase activities. Catalyzes two of the four reactions of the long chain fatty acids peroxisomal beta-oxidation pathway (PubMed:17442273, PubMed:24075987). Can also use branched-chain fatty acids such as 2-methyl-2E-butenoyl-CoA as a substrate, which is hydrated into (2S,3S)-3-hydroxy-2-methylbutanoyl-CoA (By similarity). Optimal isomerase for 2,5 double

Target Details

	bonds into 3,5 form isomerization in a range of enoyl-CoA species. Also able to isomerize both 3-cis and 3-trans double bonds into the 2-trans form in a range of enoyl-CoA species (By similarity). With HSD17B4, catalyzes the hydration of trans-2-enoyl-CoA and the dehydrogenation of 3-hydroxyacyl-CoA, but with opposite chiral specificity (Probable). Regulates the amount of medium-chain dicarboxylic fatty acids which are essential regulators of all fatty acid oxidation pathways (PubMed:24075987). Also involved in the degradation of long-chain dicarboxylic acids through peroxisomal beta-oxidation (By similarity). {ECO:0000250|UniProtKB:P07896, ECO:0000250|UniProtKB:Q08426, ECO:0000269|PubMed:17442273, ECO:0000269|PubMed:24075987, ECO:0000305|PubMed:24075987}.
Molecular Weight:	78.3 kDa
UniProt:	Q9DBM2
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months